

Figure 1

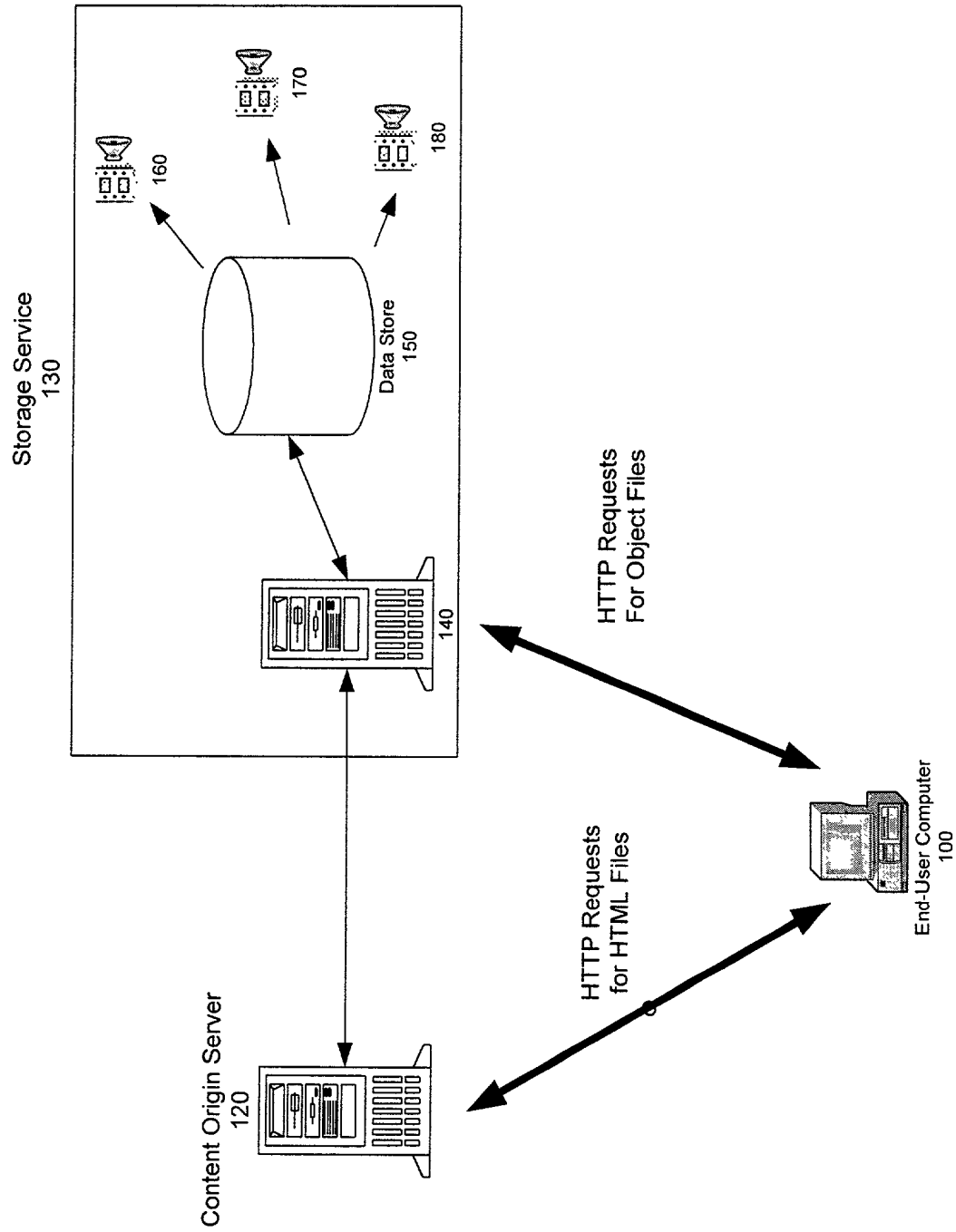


Figure 2

FIG. 3 is a block diagram of a system architecture for file upload/download operations.

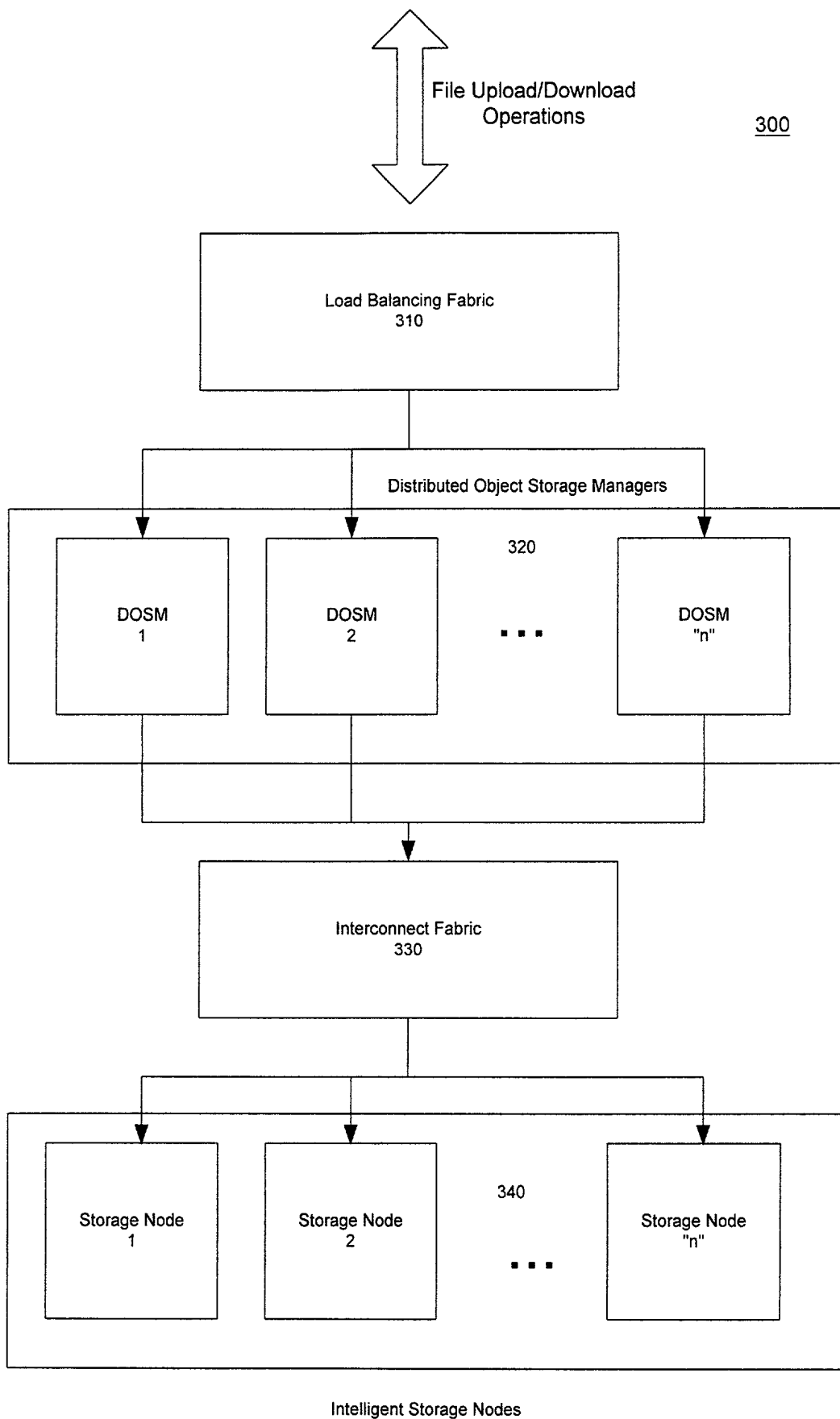


Figure 3

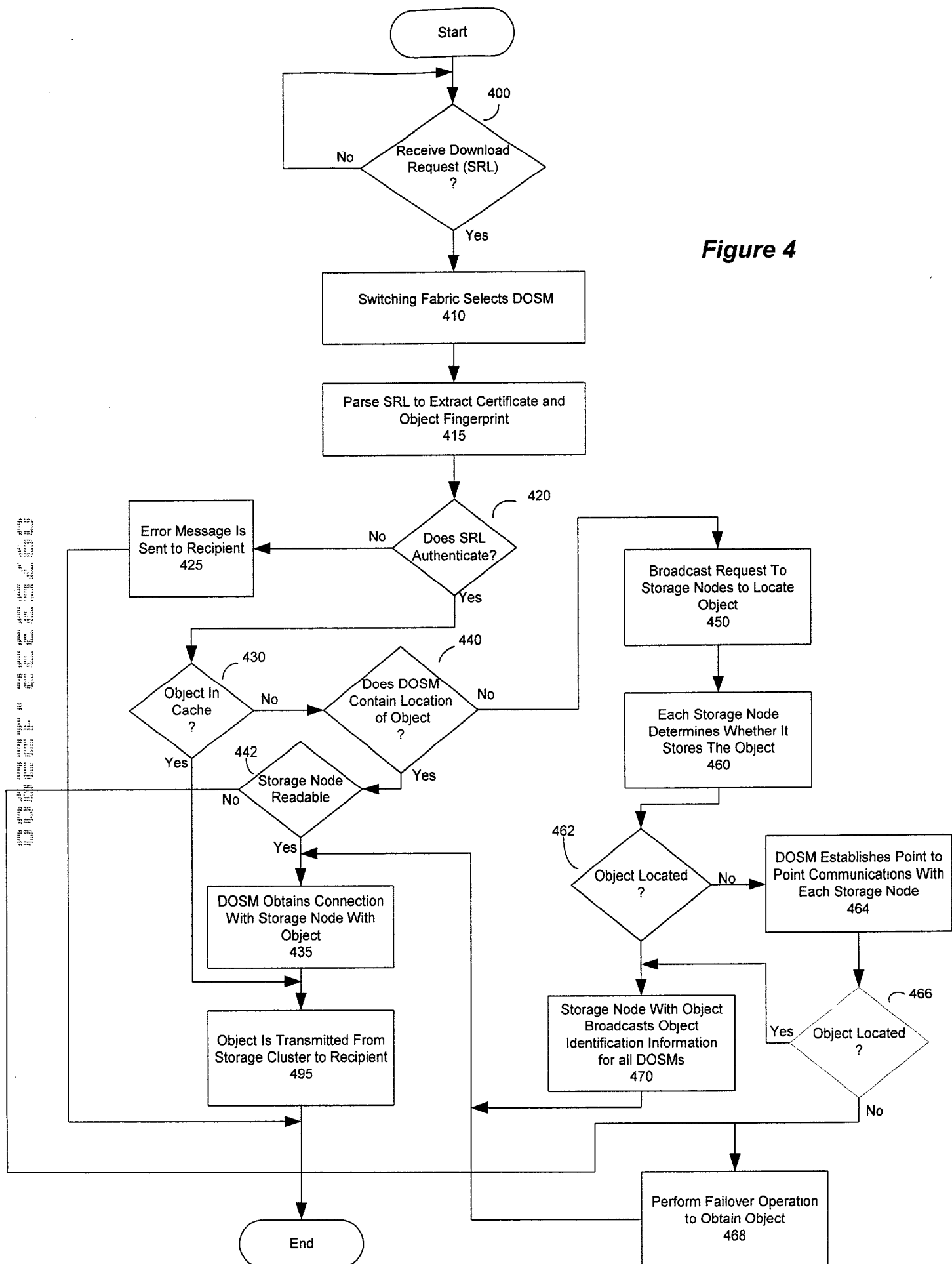


Figure 4

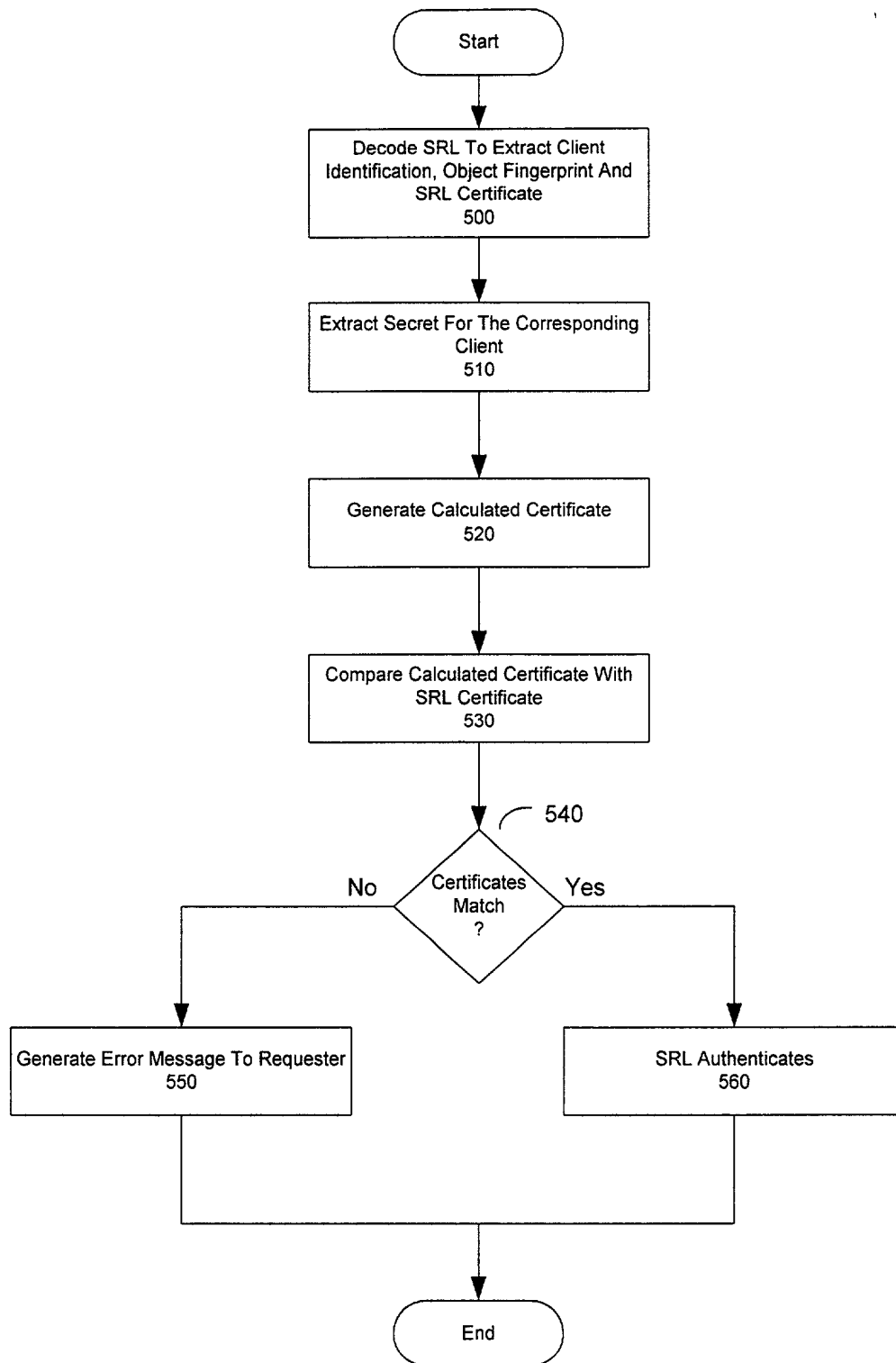


Figure 5

FIG. 6 is a block diagram of a DOSM Server 600. The server is connected to a DOSM File Look-up Table 610, a Data Cache 620, and a State Table 630. The server is also connected to a network 640.

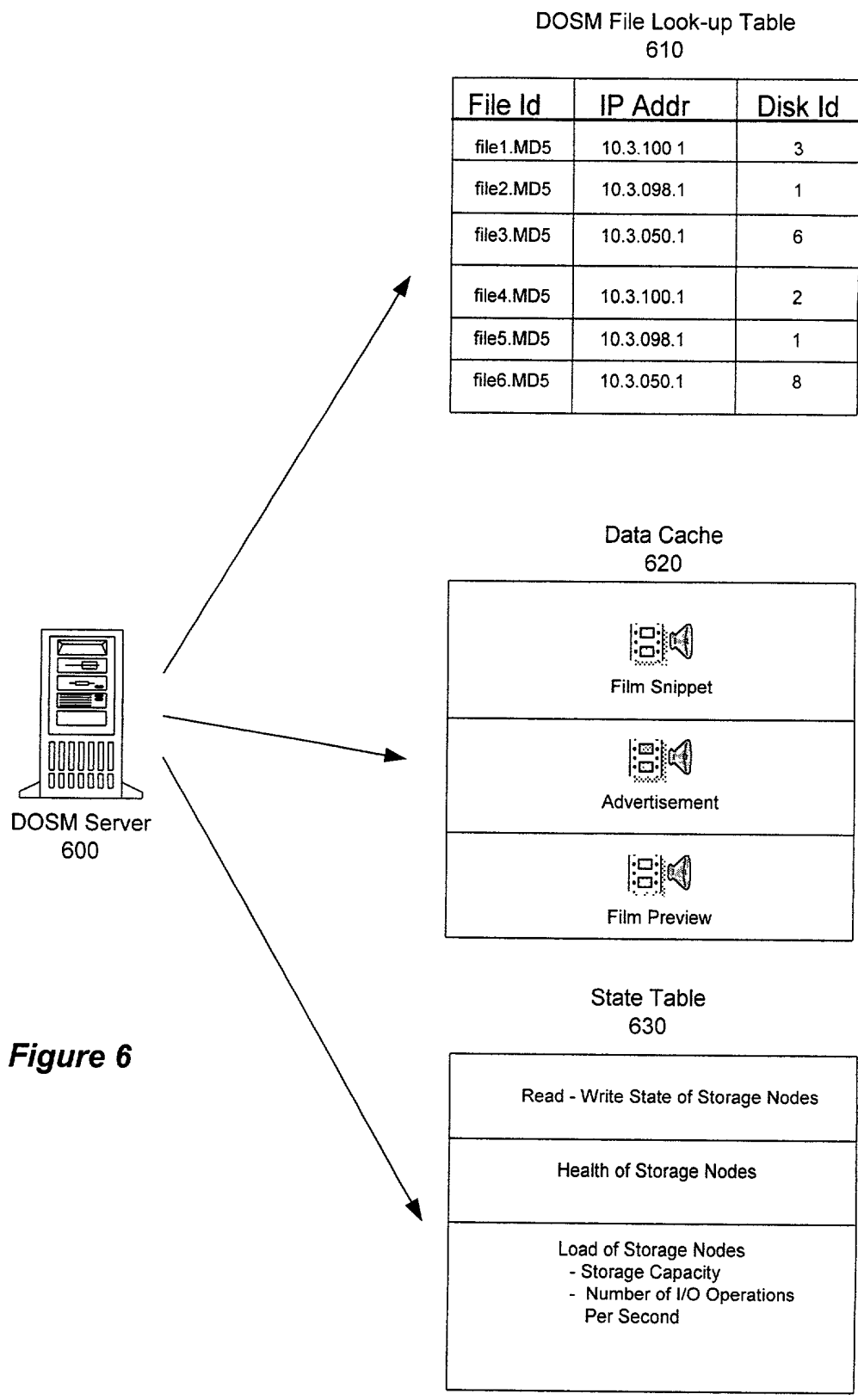


Figure 6

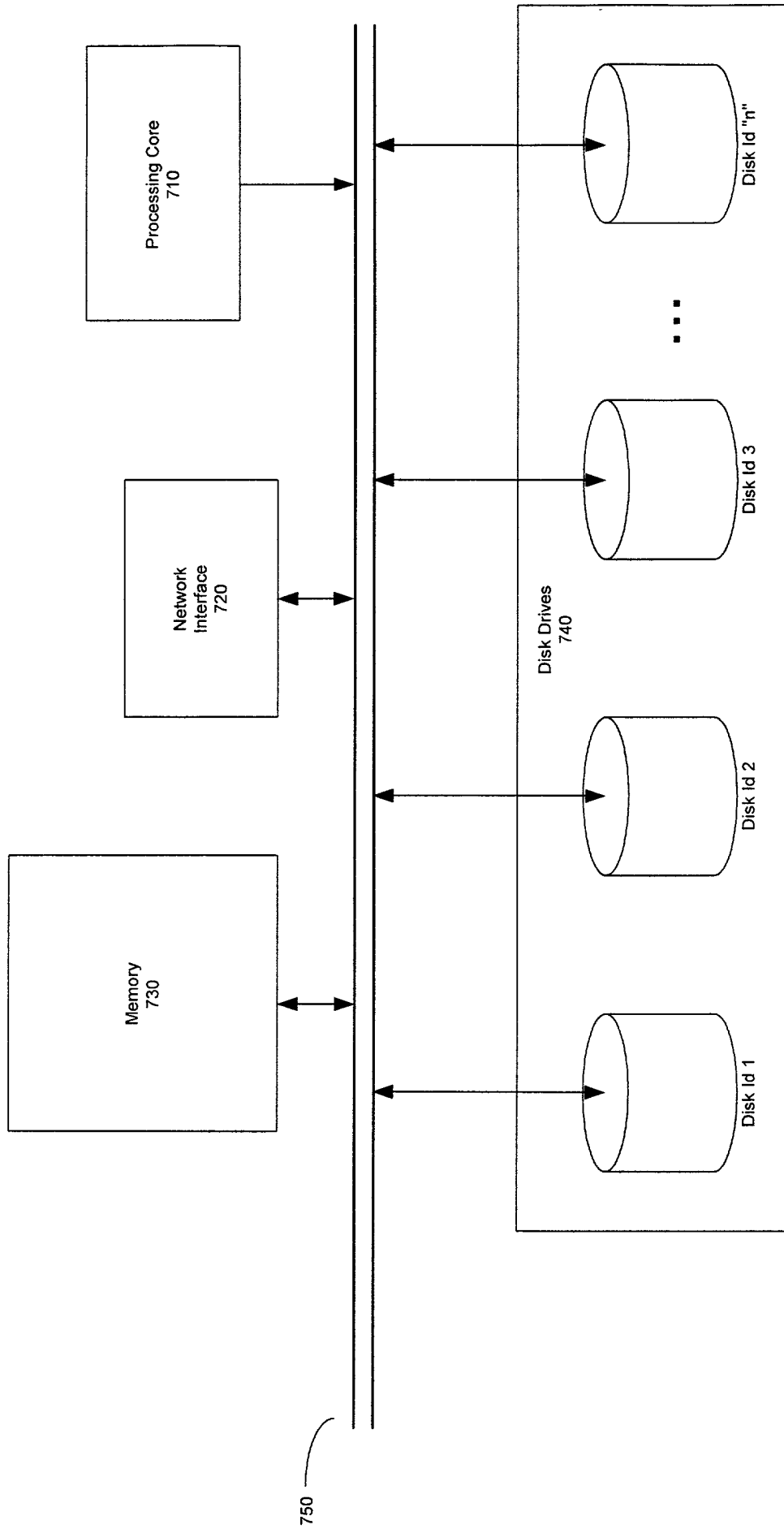


Figure 7

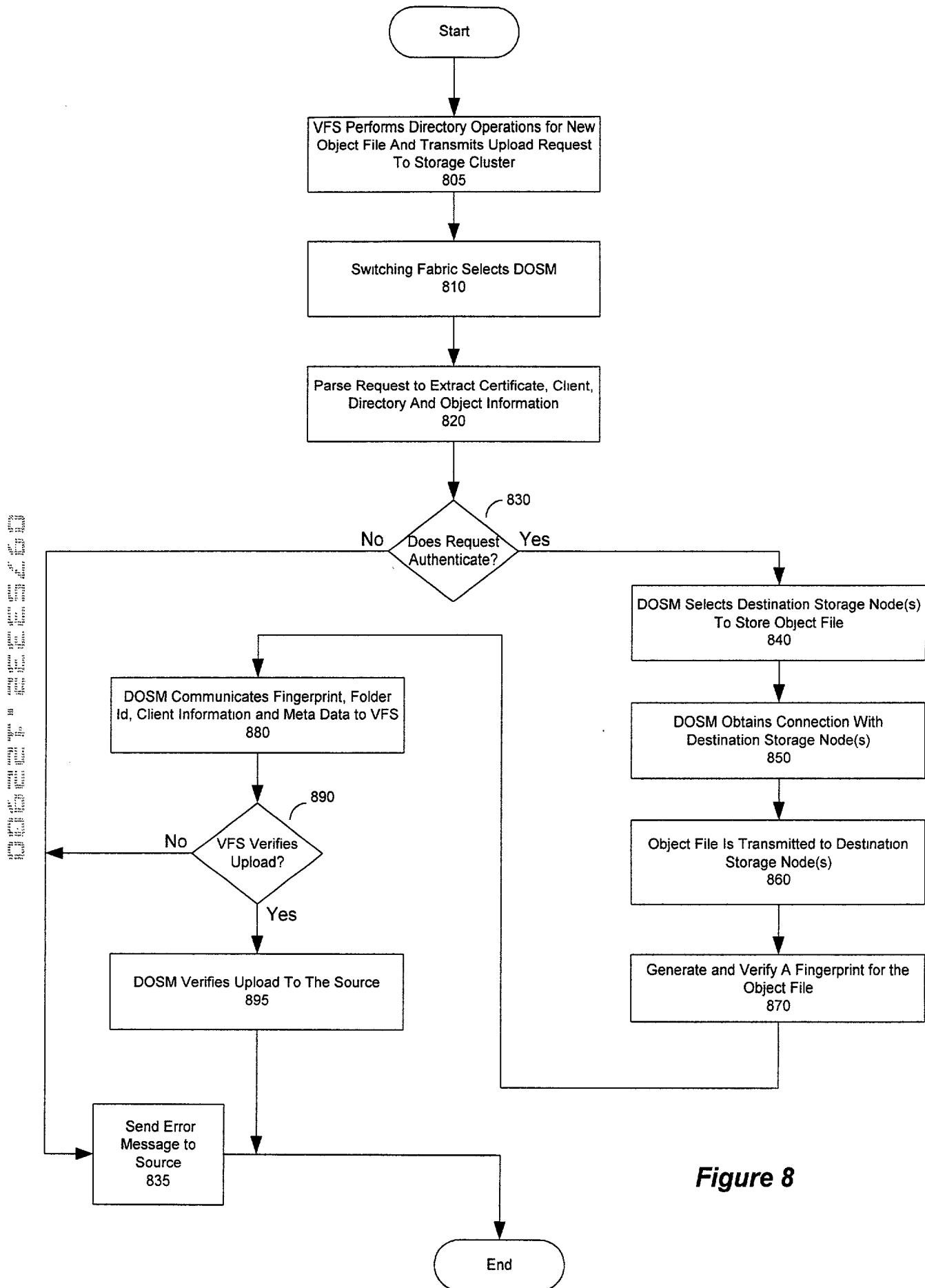


Figure 8

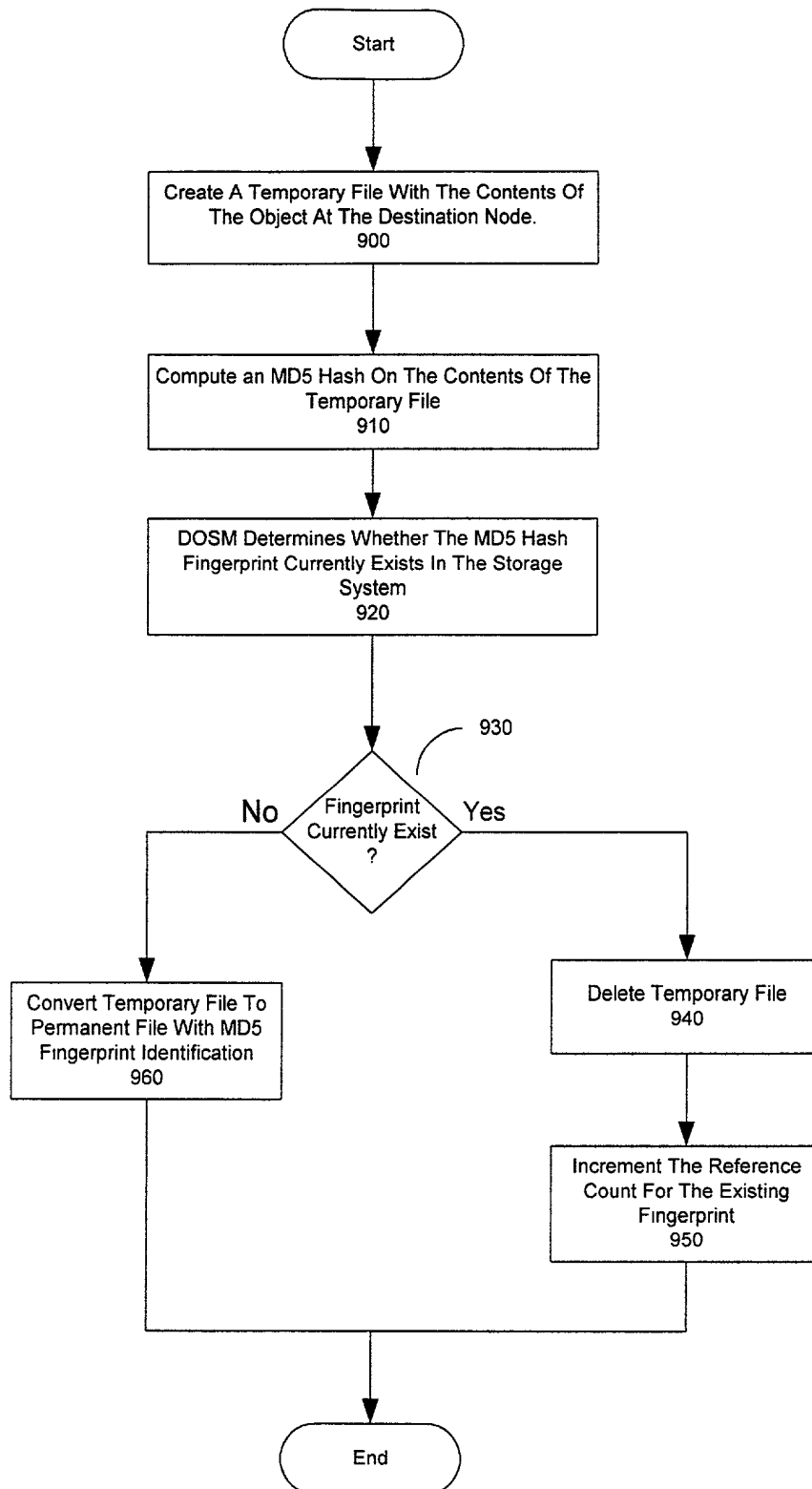


Figure 9

FIG. 10 is a block diagram of a system architecture for file upload/download operations.

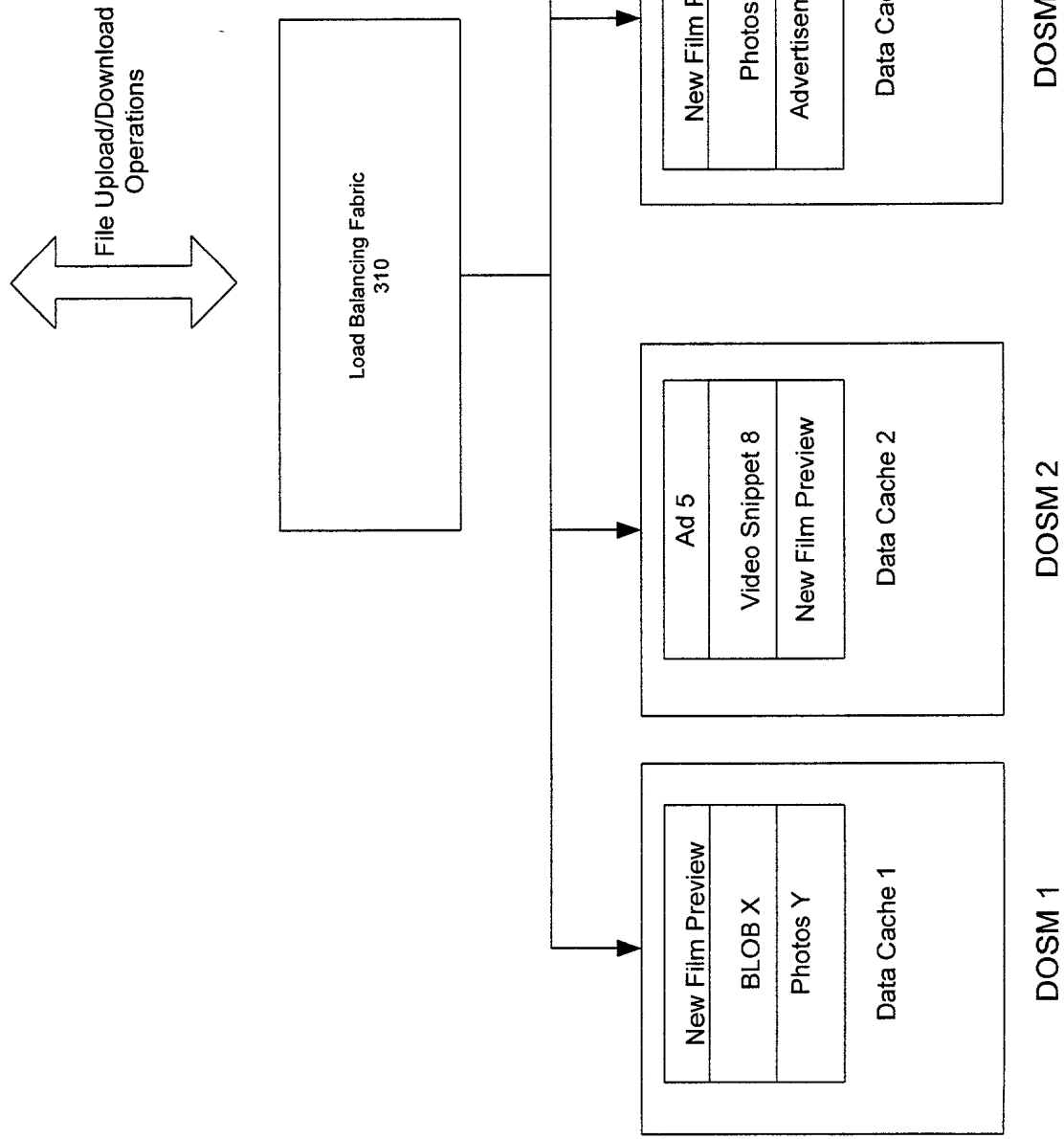


Figure 10

FIG. 11 is a block diagram of a distributed directory system architecture.

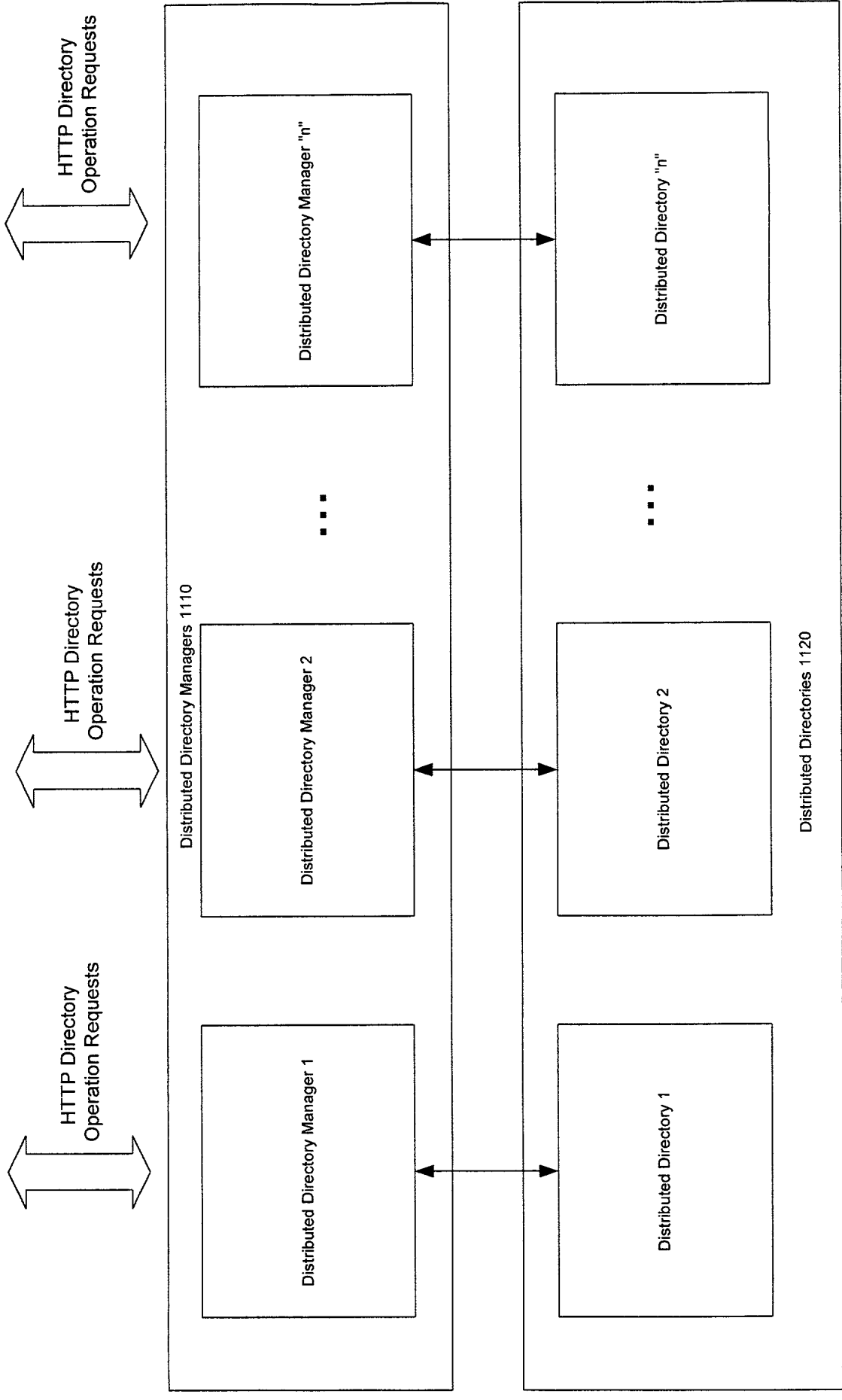


Figure 11

Customer Table

	Customer Name	Customer Reserved Fields
	Customer A	[Customer stores data ...]
	Customer B	[Customer stores data ...]
	Customer C	[Customer stores data ...]
	Customer D	[Customer stores data ...]

1200

Folder Table

Customer Id	Folder Id	Folder Parent Id	Metadata
3	2	-	[Reserved]
3	100	2	[Reserved]
3	251	2	[Reserved]
3	166	251	[Reserved]

1210

File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata
3	52.MD5	100	2	[Reserved]
3	55.MD5	100	2	[Reserved]
3	99.MD5	166	251	[Reserved]
3	67.MD5	166	251	[Reserved]

1220

Figure 12

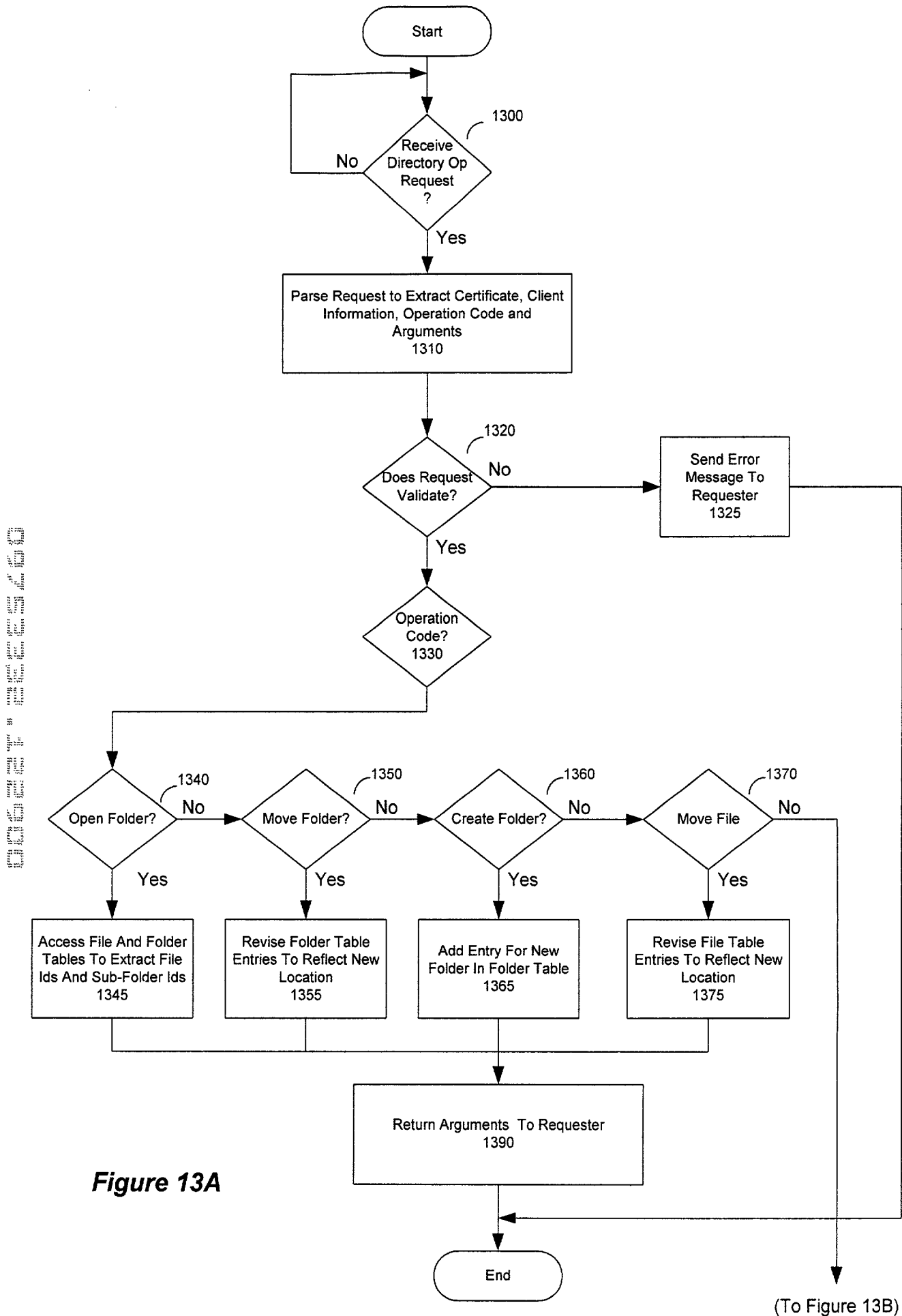


Figure 13A

(From Figure 13A)

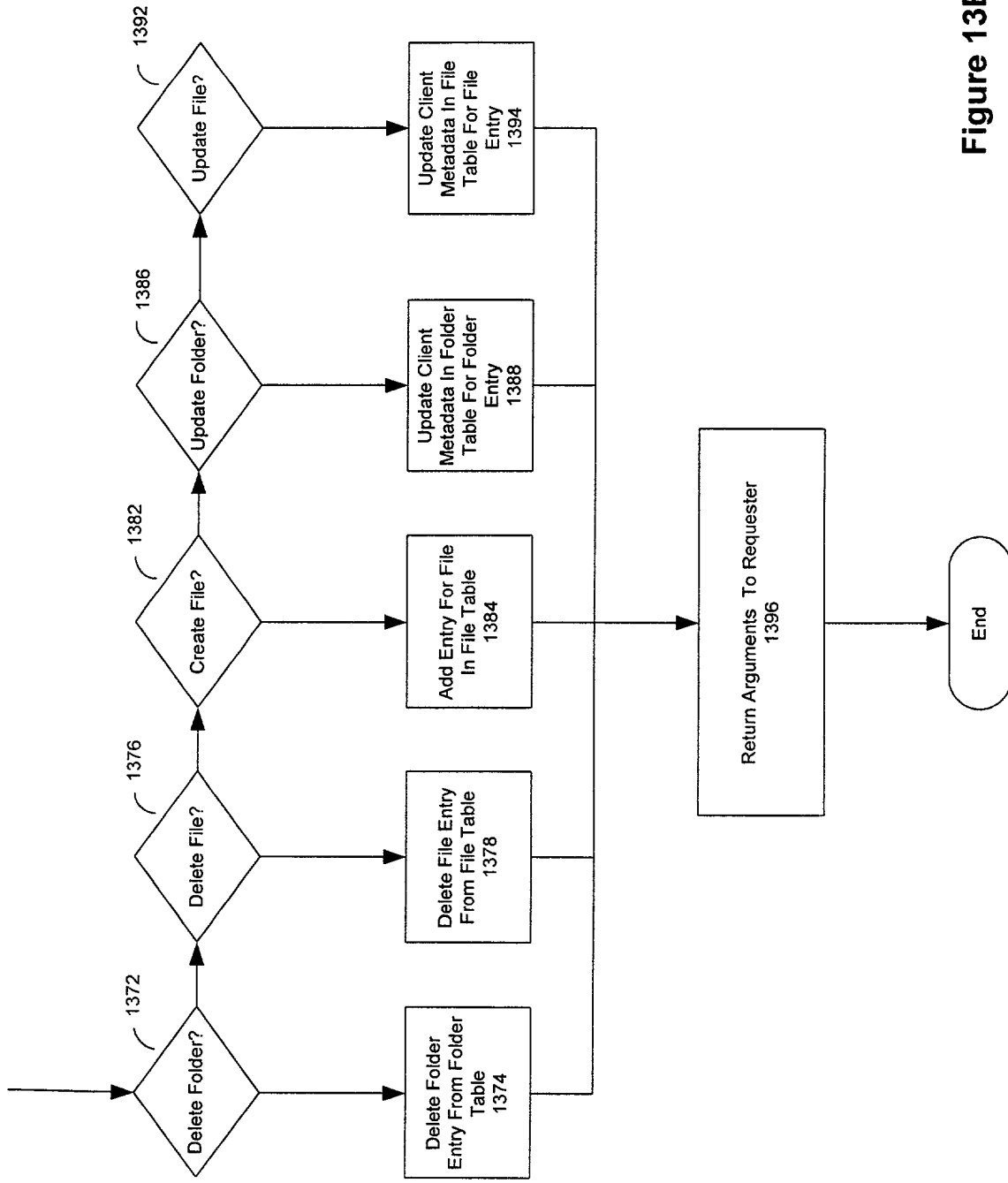


Figure 13B

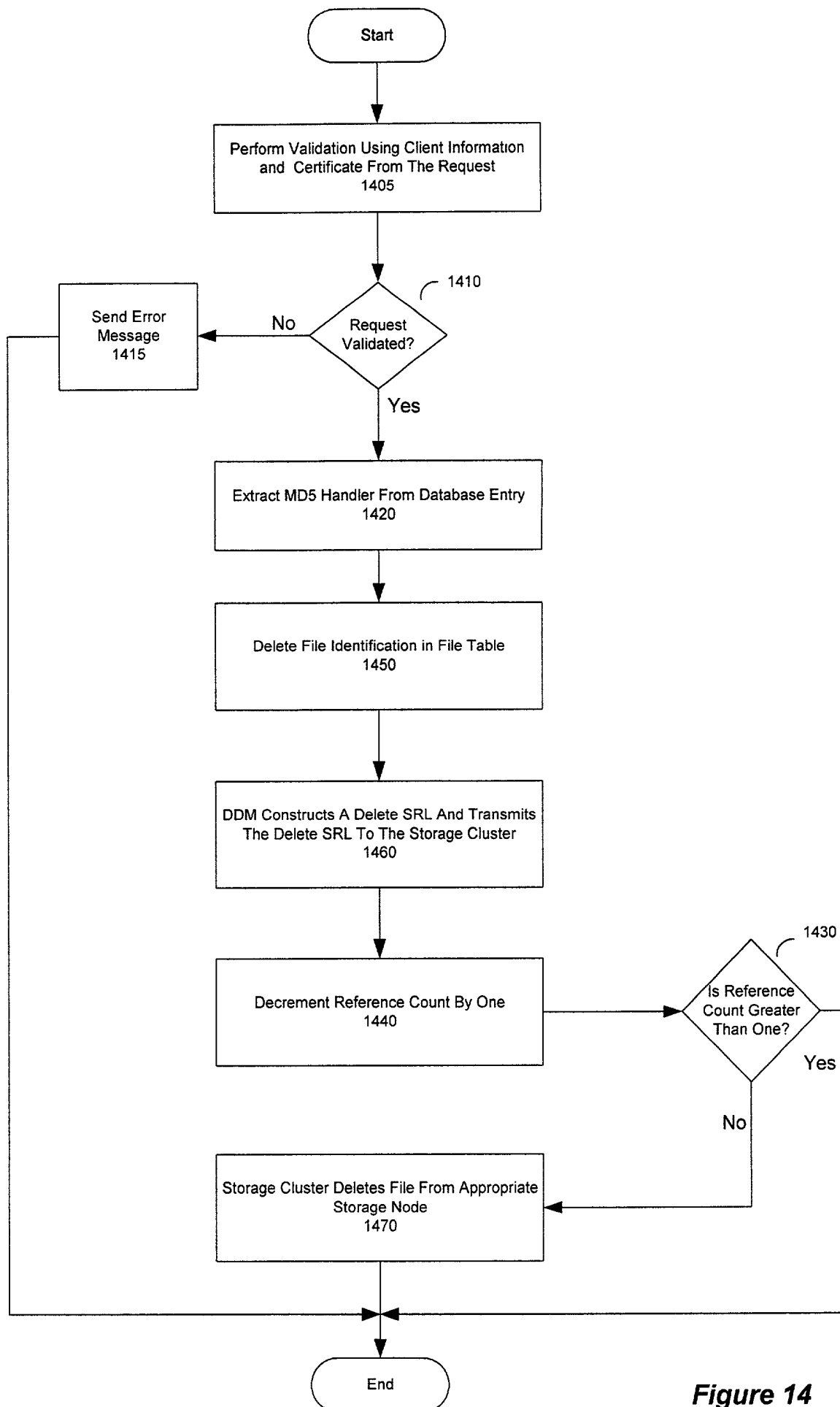


Figure 14

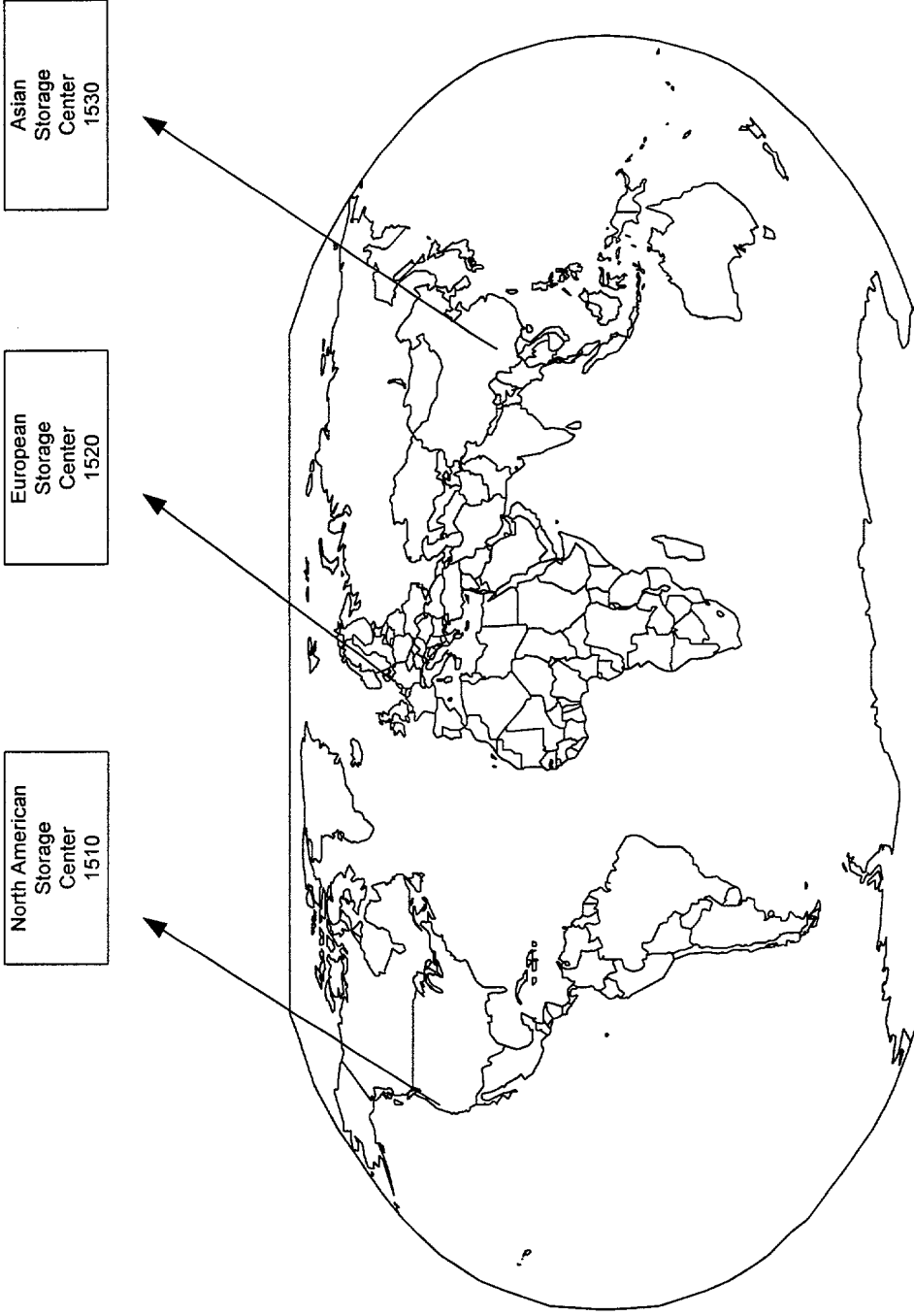


Figure 15

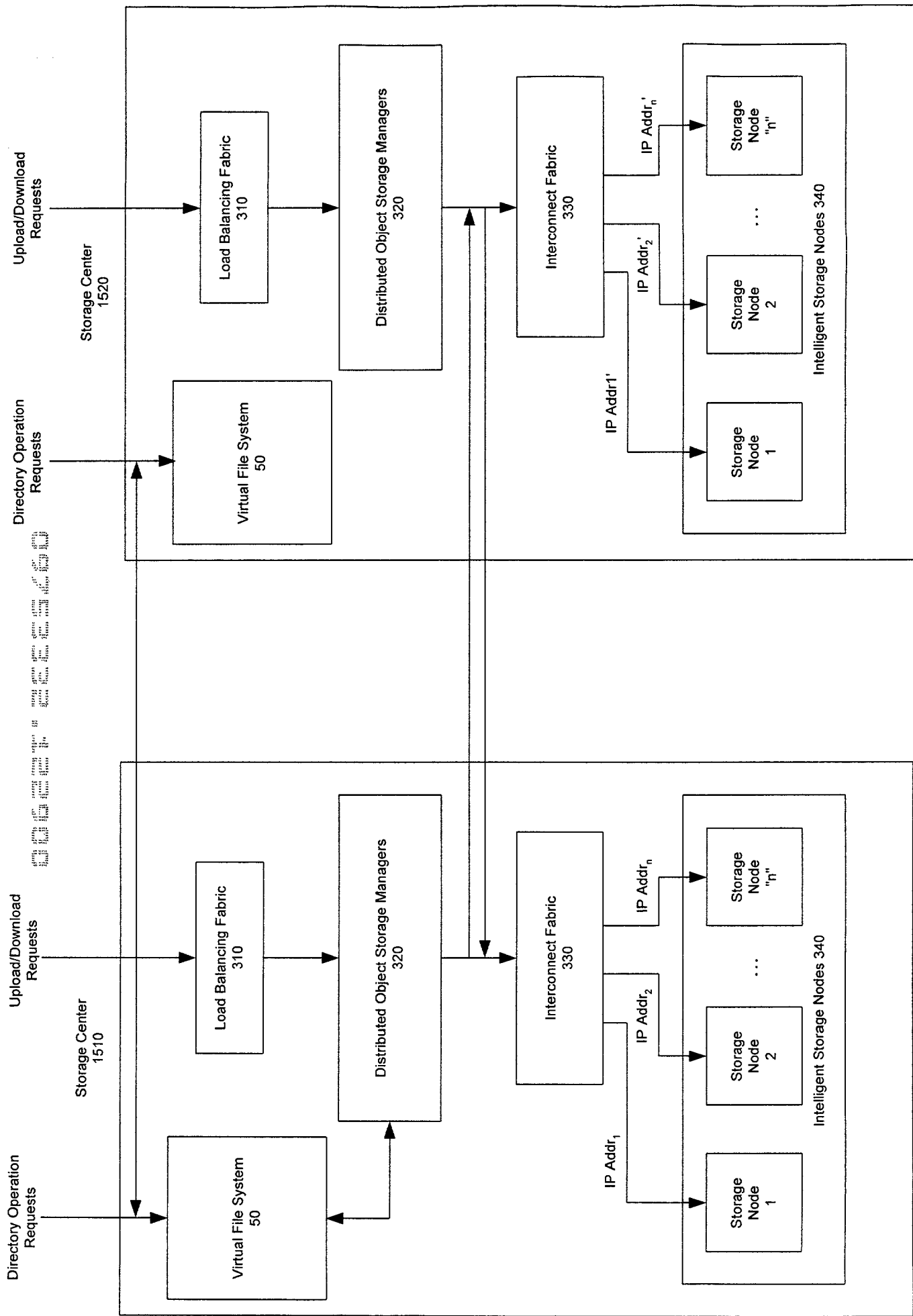


Figure 16

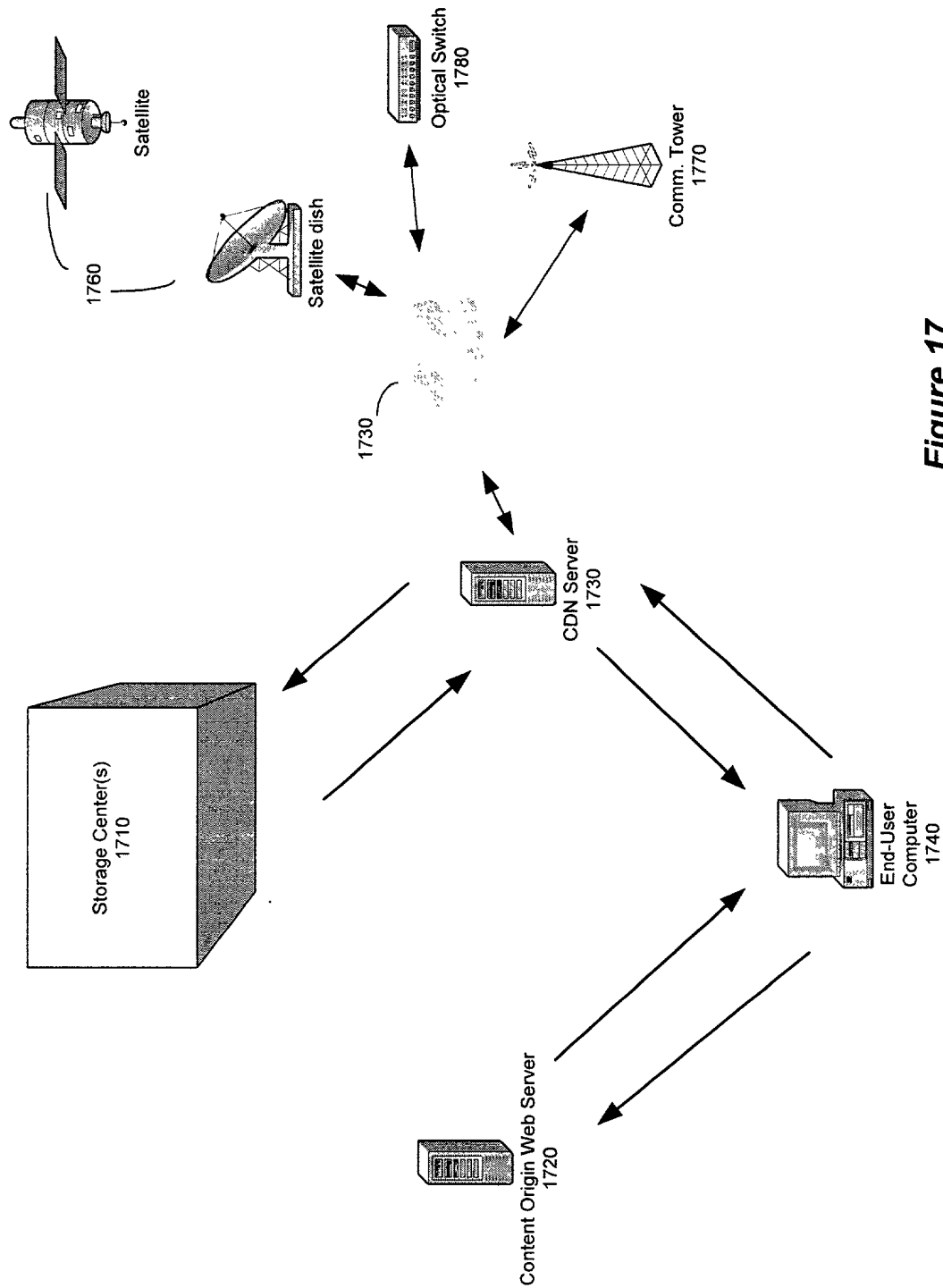


Figure 17

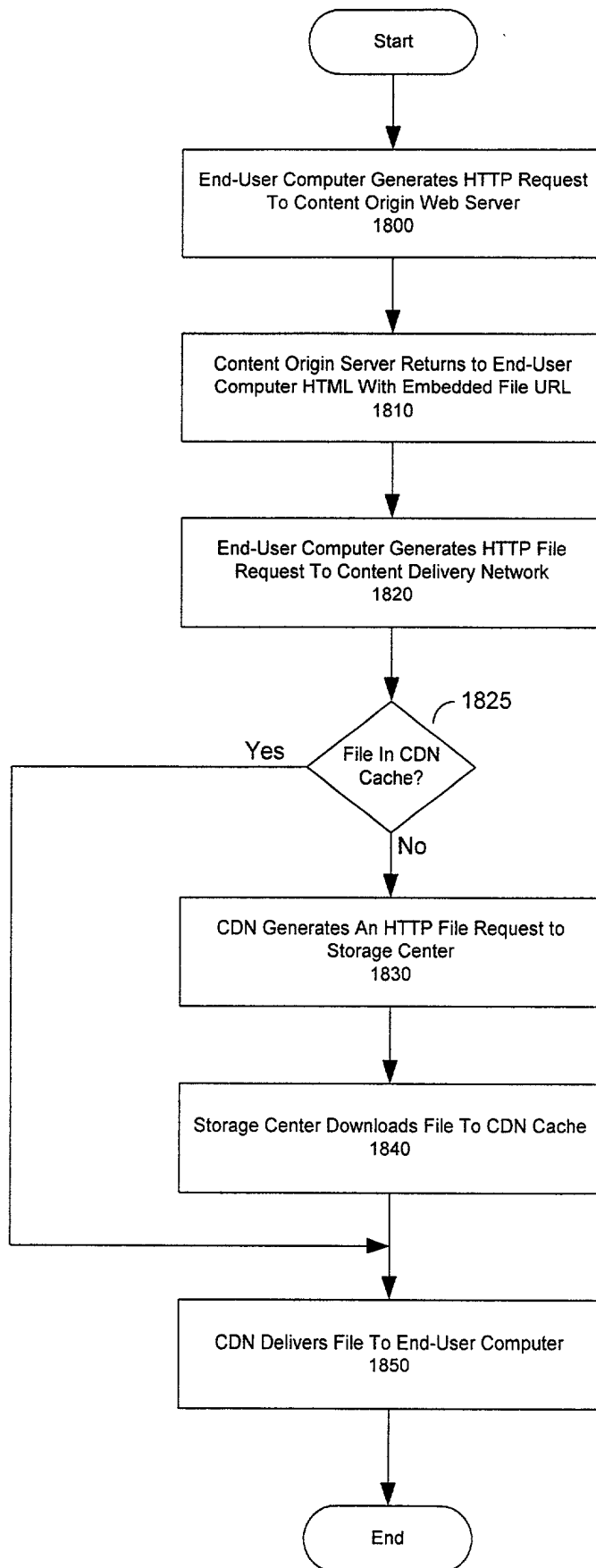


Figure 18

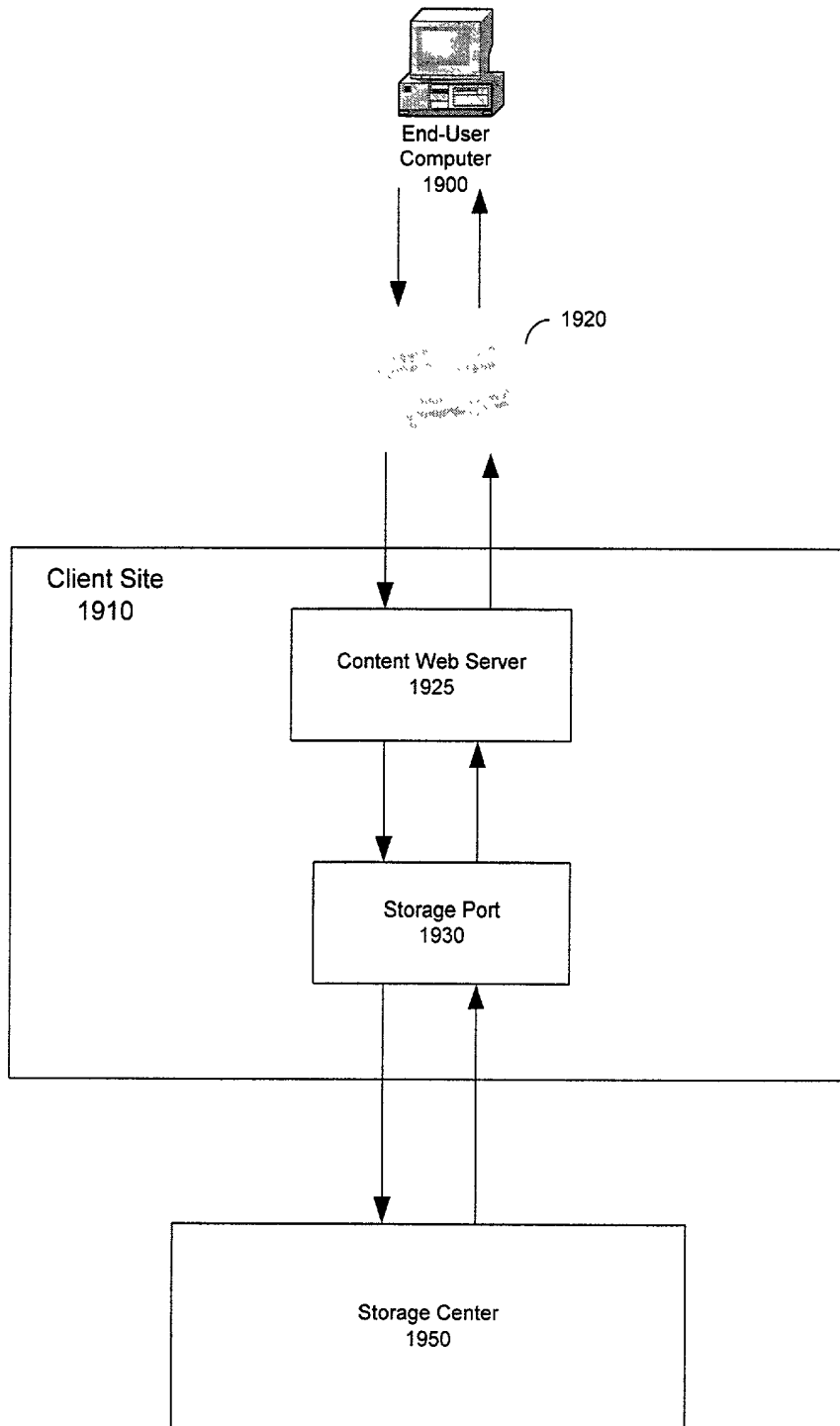


Figure 19

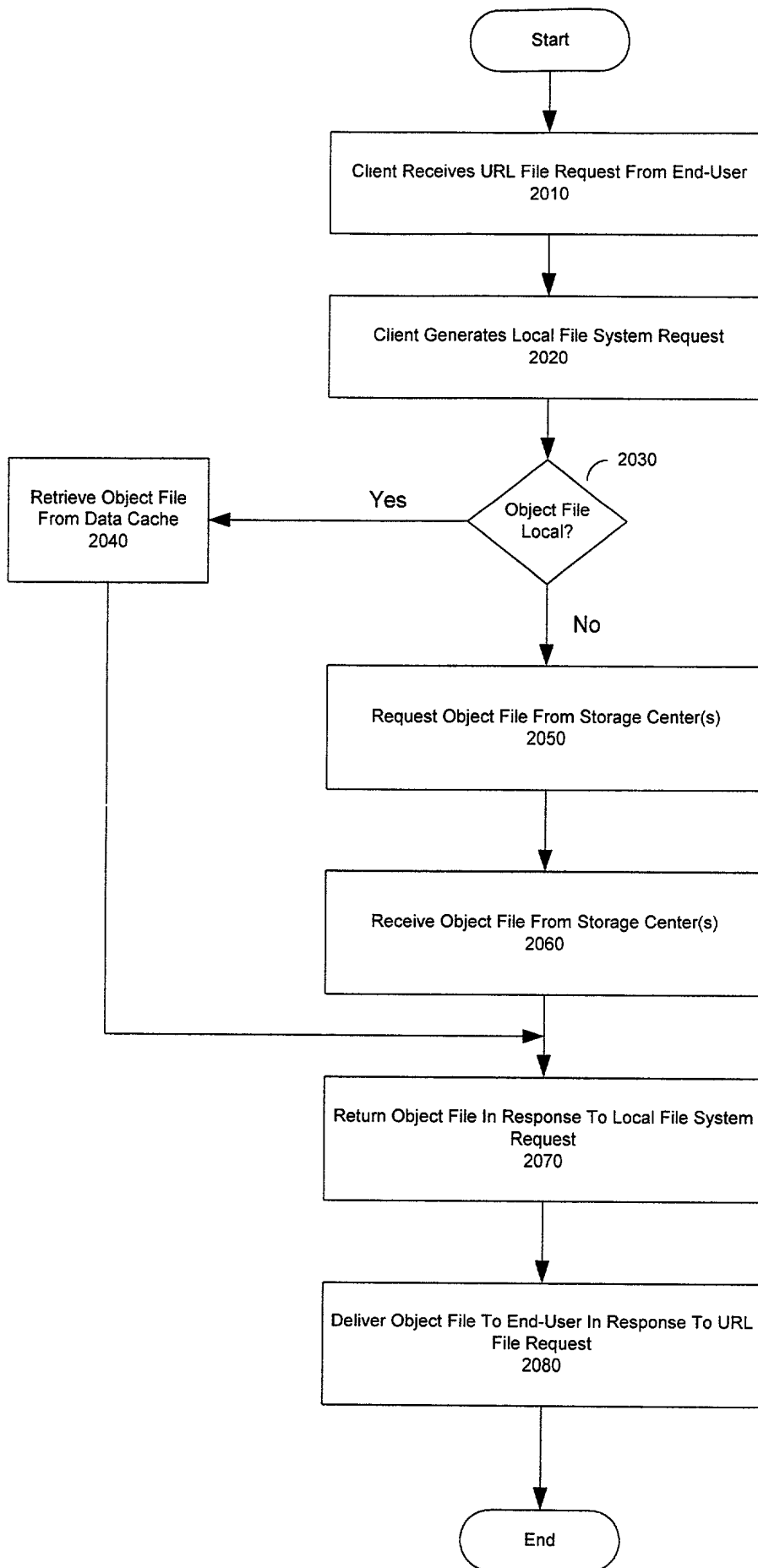


Figure 20

FIG. 21a is a block diagram of a system architecture. The system includes a Content Web Server 2100, a Storage Port 2110, a Storage Center 2130, and a Content Web Server 2140. The Content Web Server 2100 is connected to the Storage Port 2110 via a network 2120. The Storage Port 2110 is connected to the Storage Center 2130 via a network 2130. The Content Web Server 2140 is connected to the Storage Port 2110 via a network 2140. The Storage Port 2110 is also connected to the Storage Center 2130 via a network 2130.

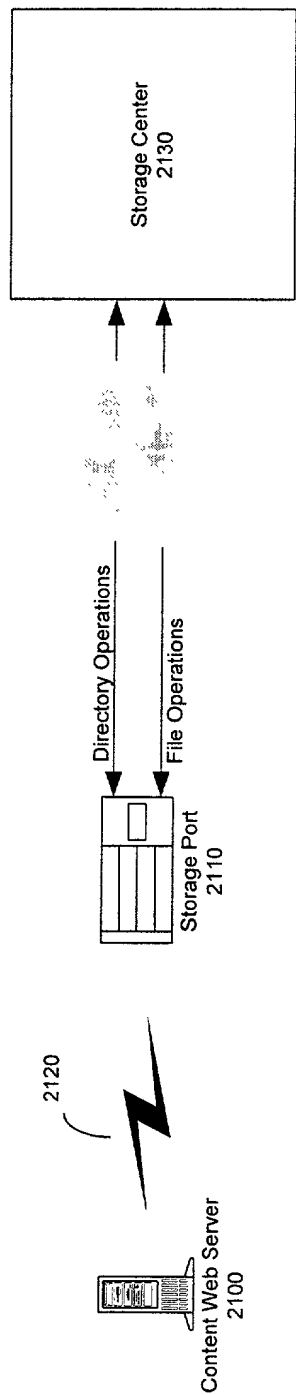


Figure 21a

2150

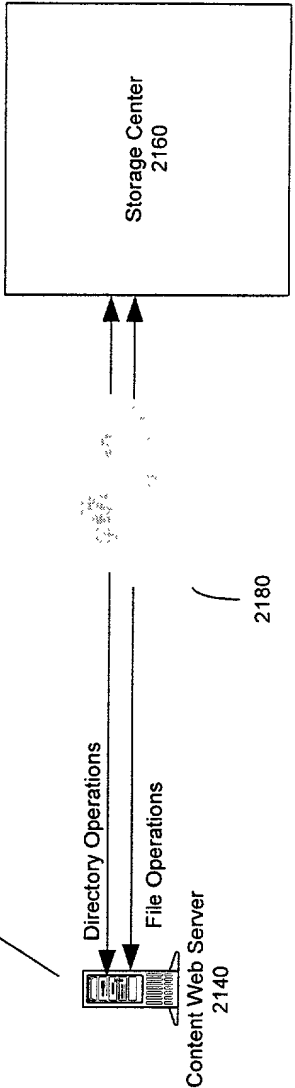
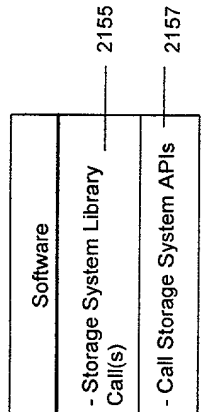


Figure 21b

Storage Port
2200

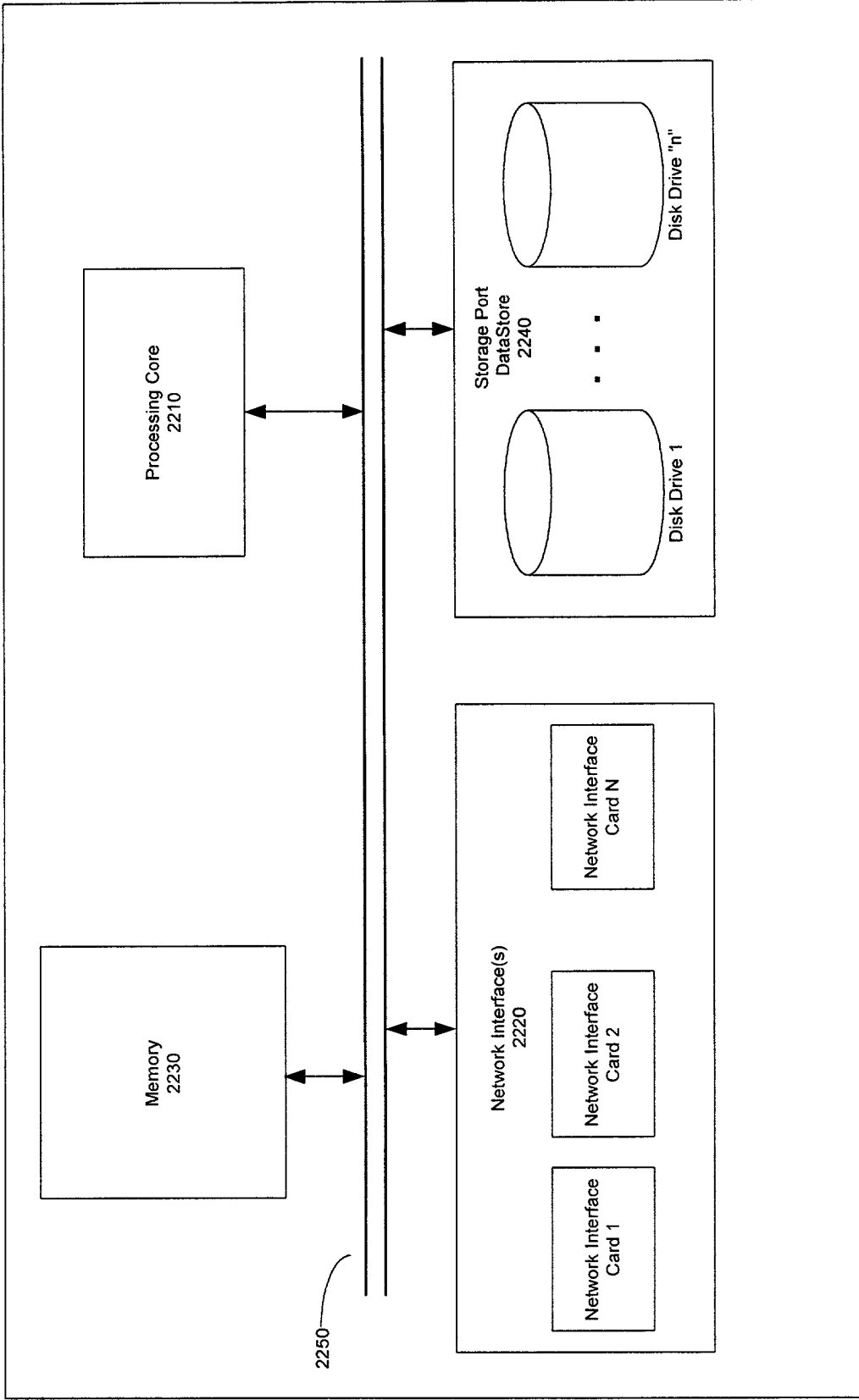


Figure 22

2300

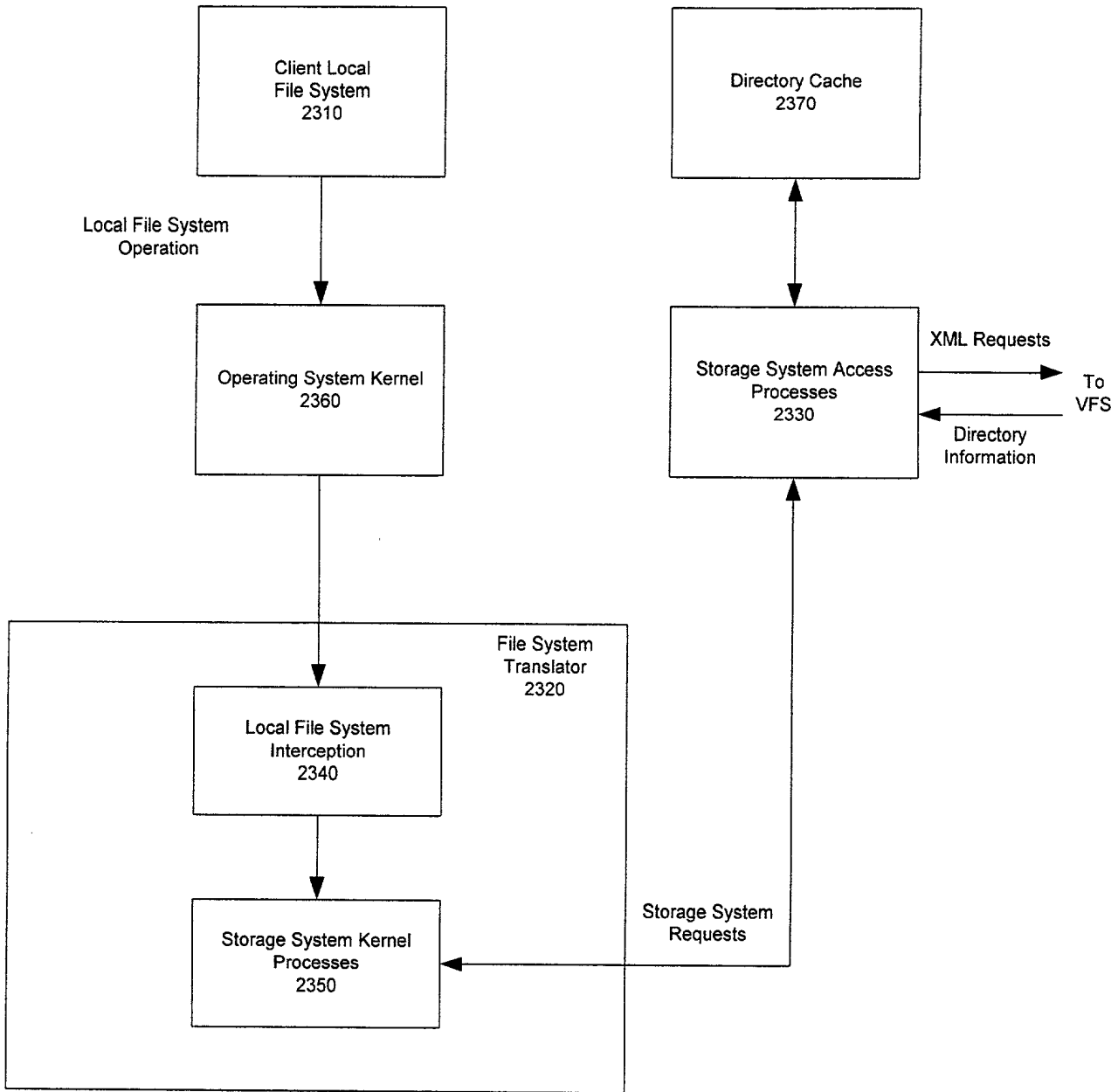


Figure 23

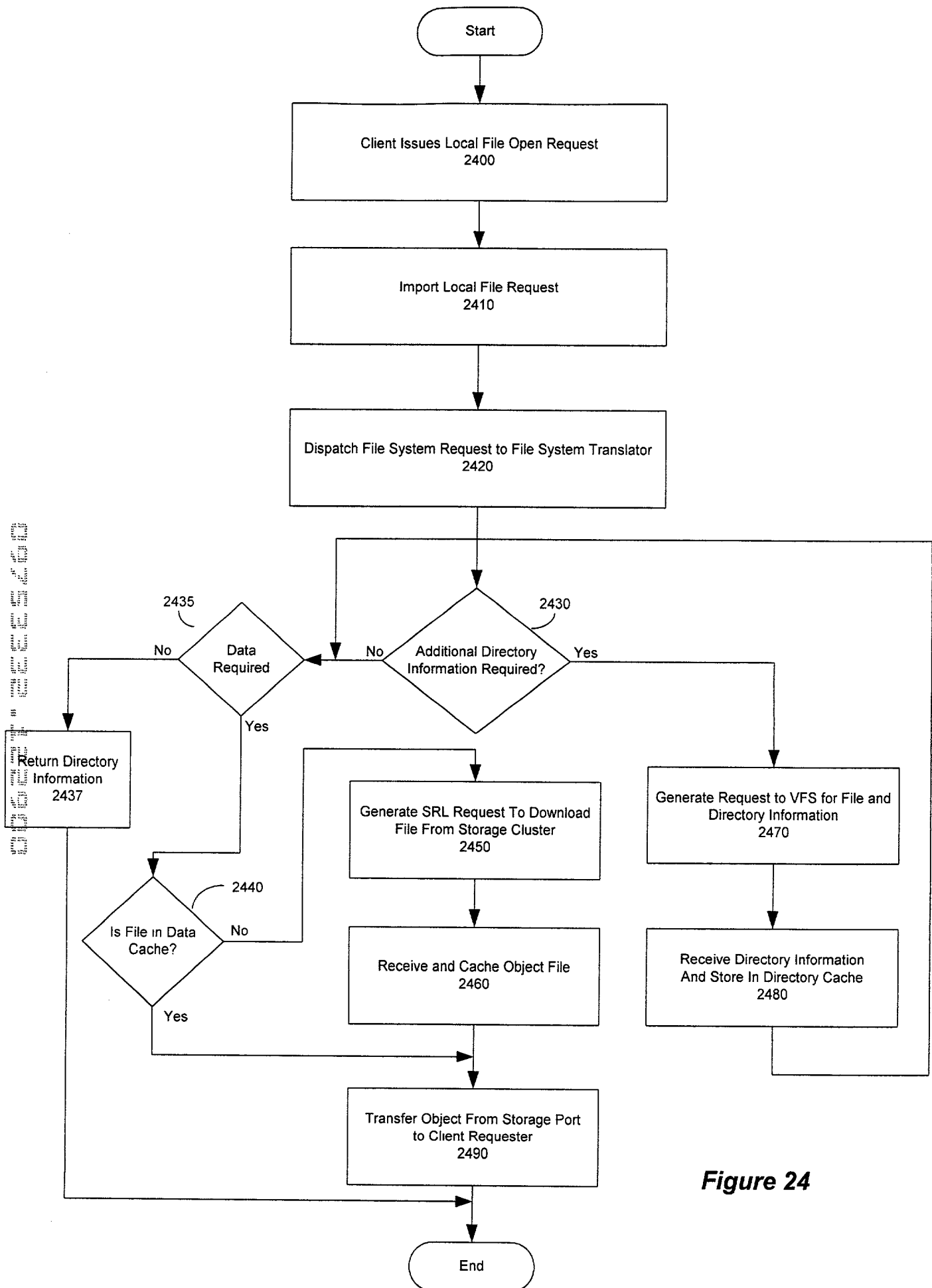


Figure 24

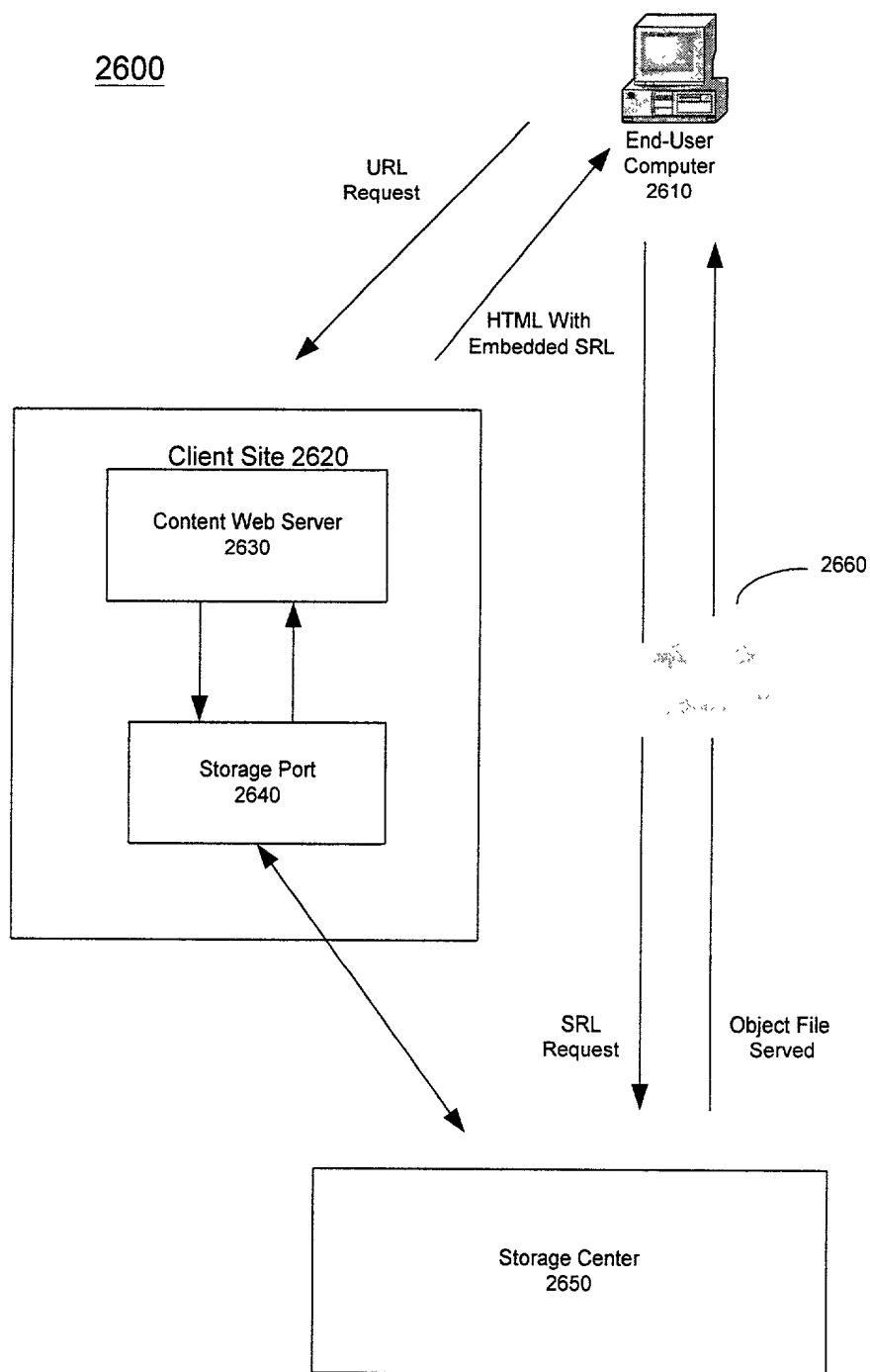


Figure 25

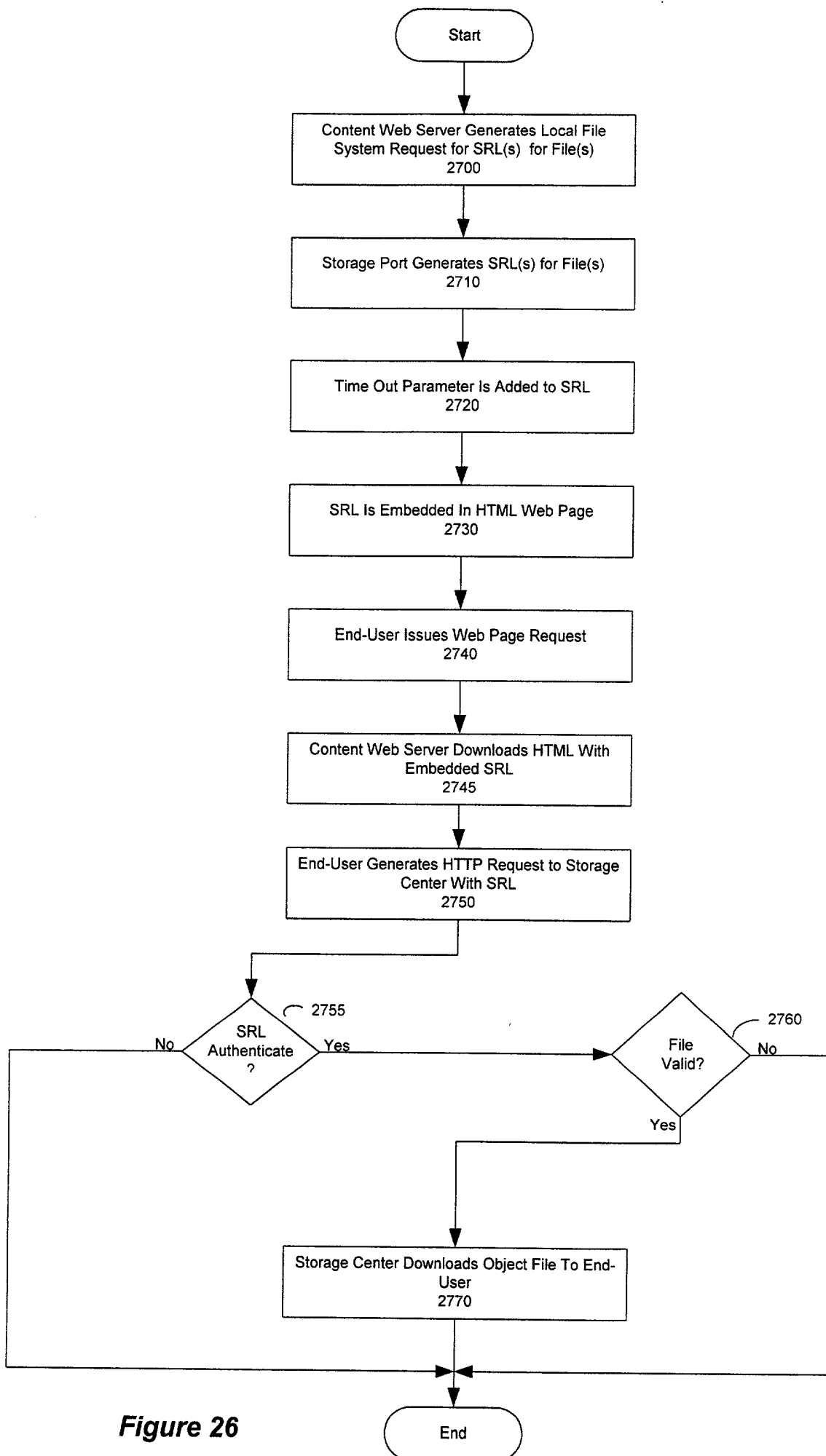


Figure 26

FIG. 27 is a block diagram of a system architecture for a client site and a storage center. The client site 2820 includes a content web server 2830 and a private file manager 2840. The storage center 2850 is connected to the private file manager 2840. An end-user computer 2810 is connected to the content web server 2830. The system is labeled 2800.

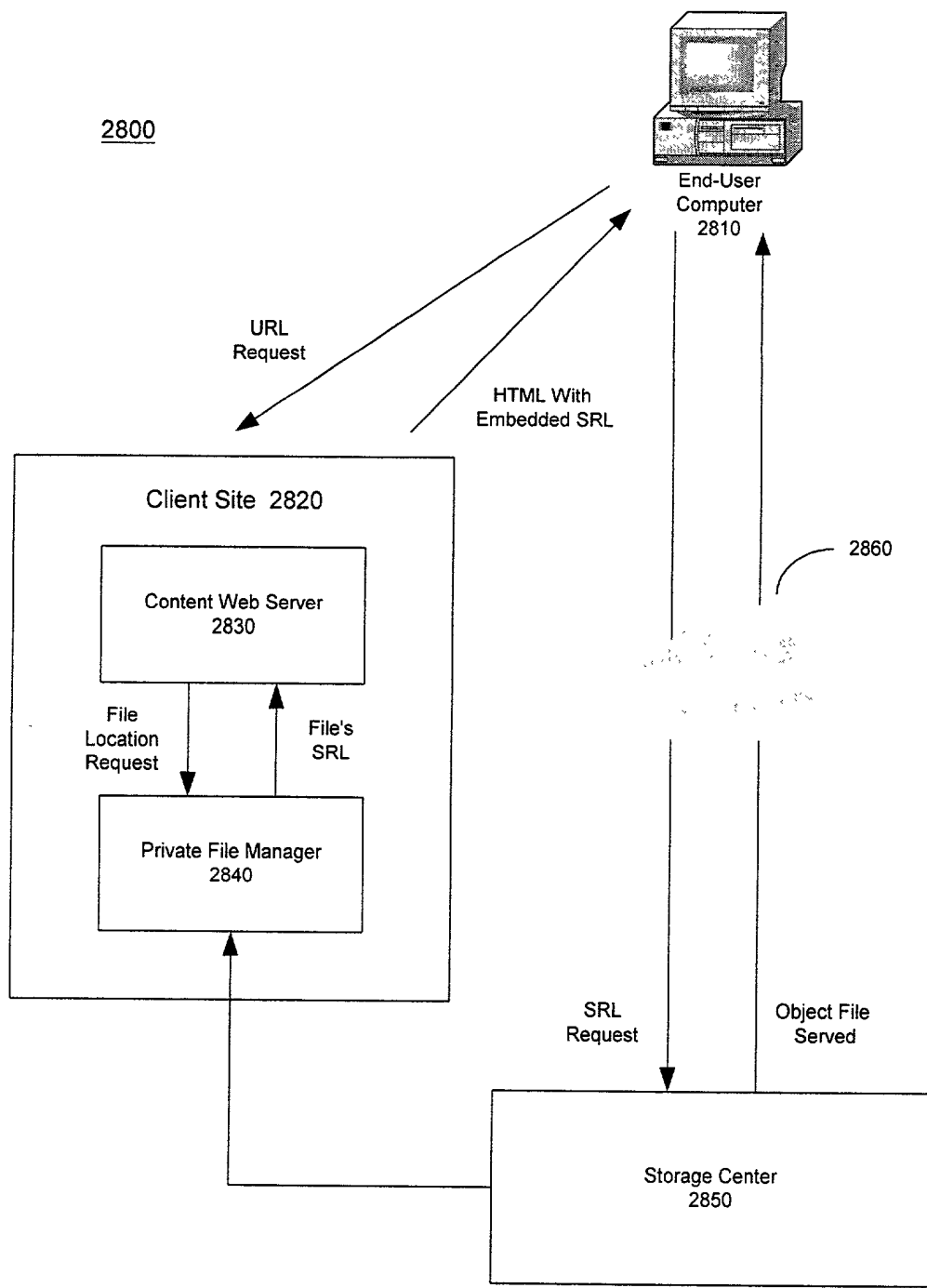


Figure 27

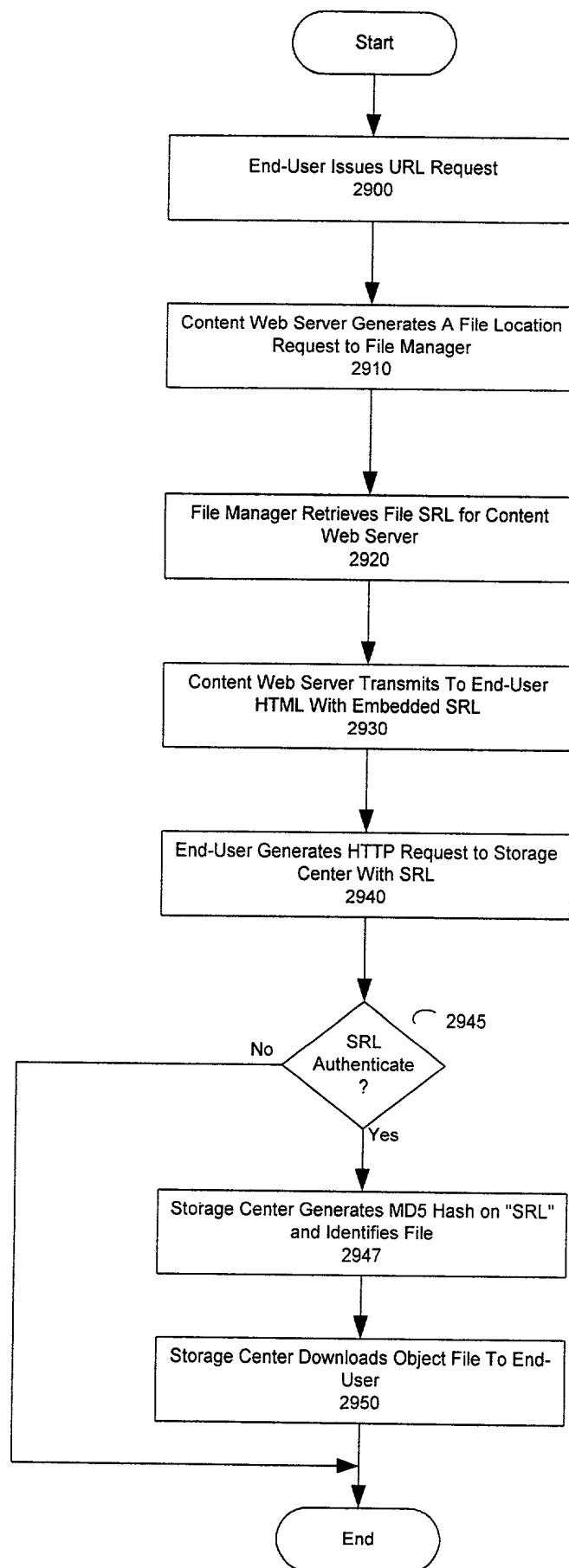


Figure 28

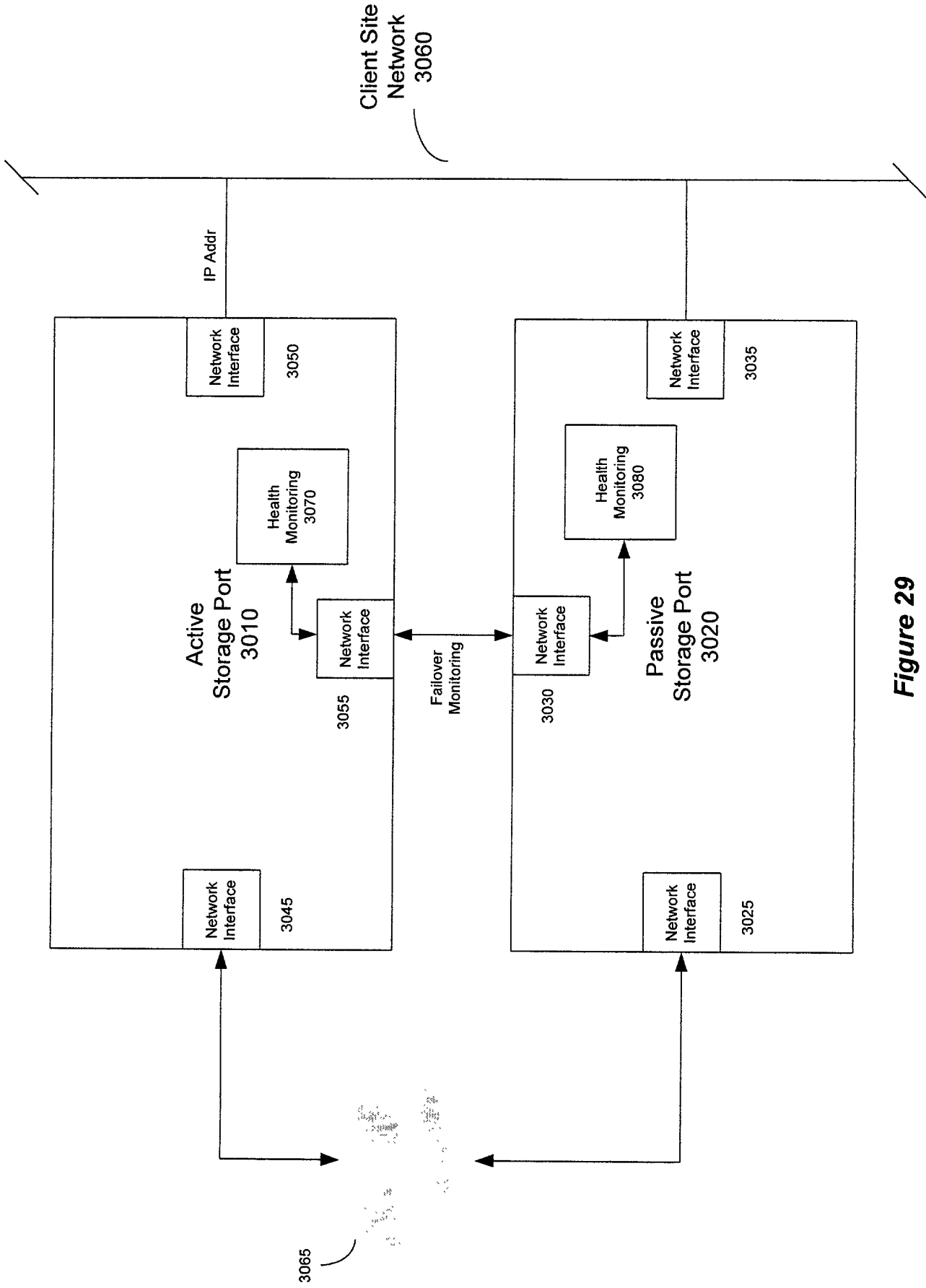


Figure 29

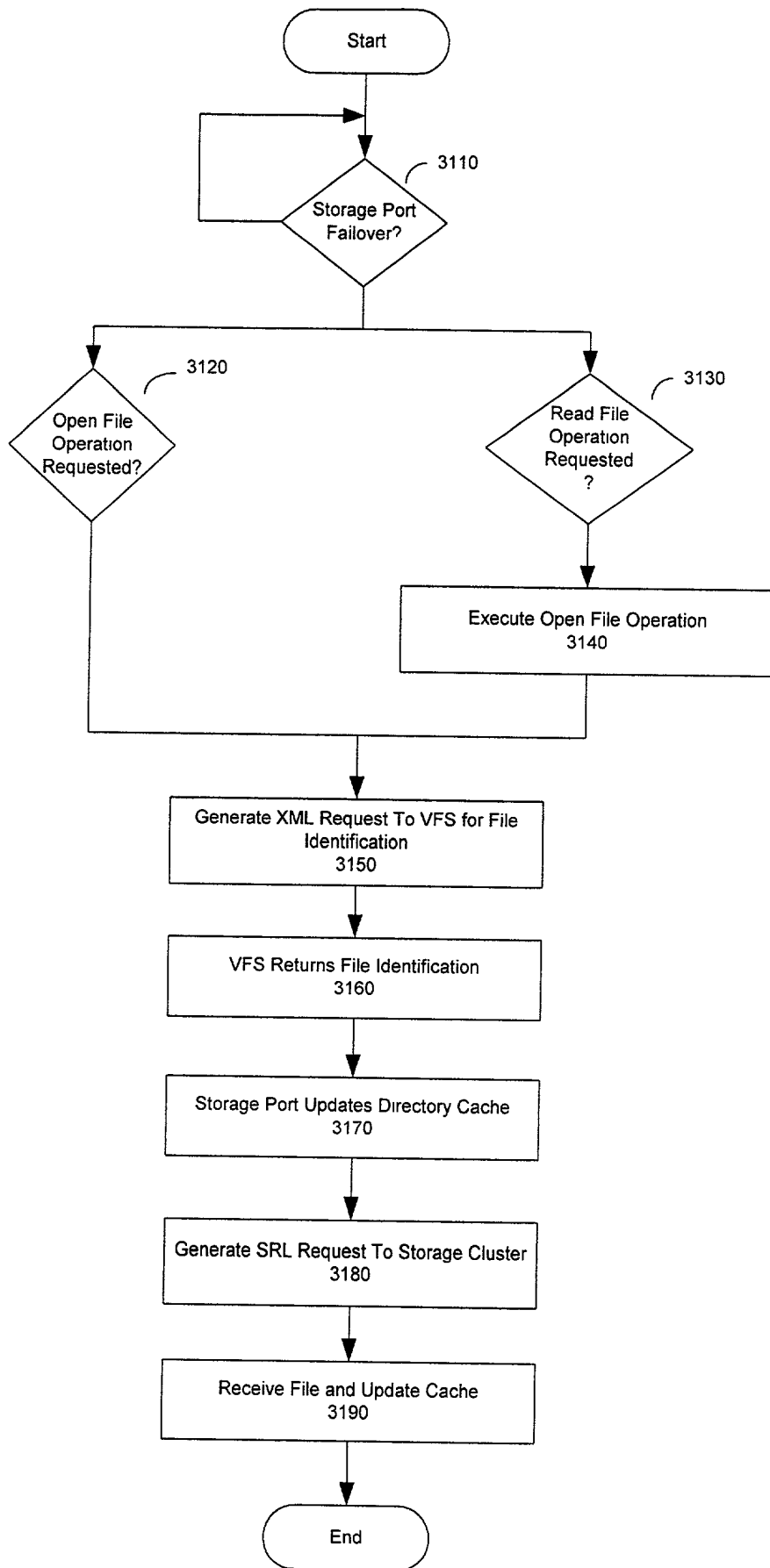


Figure 30

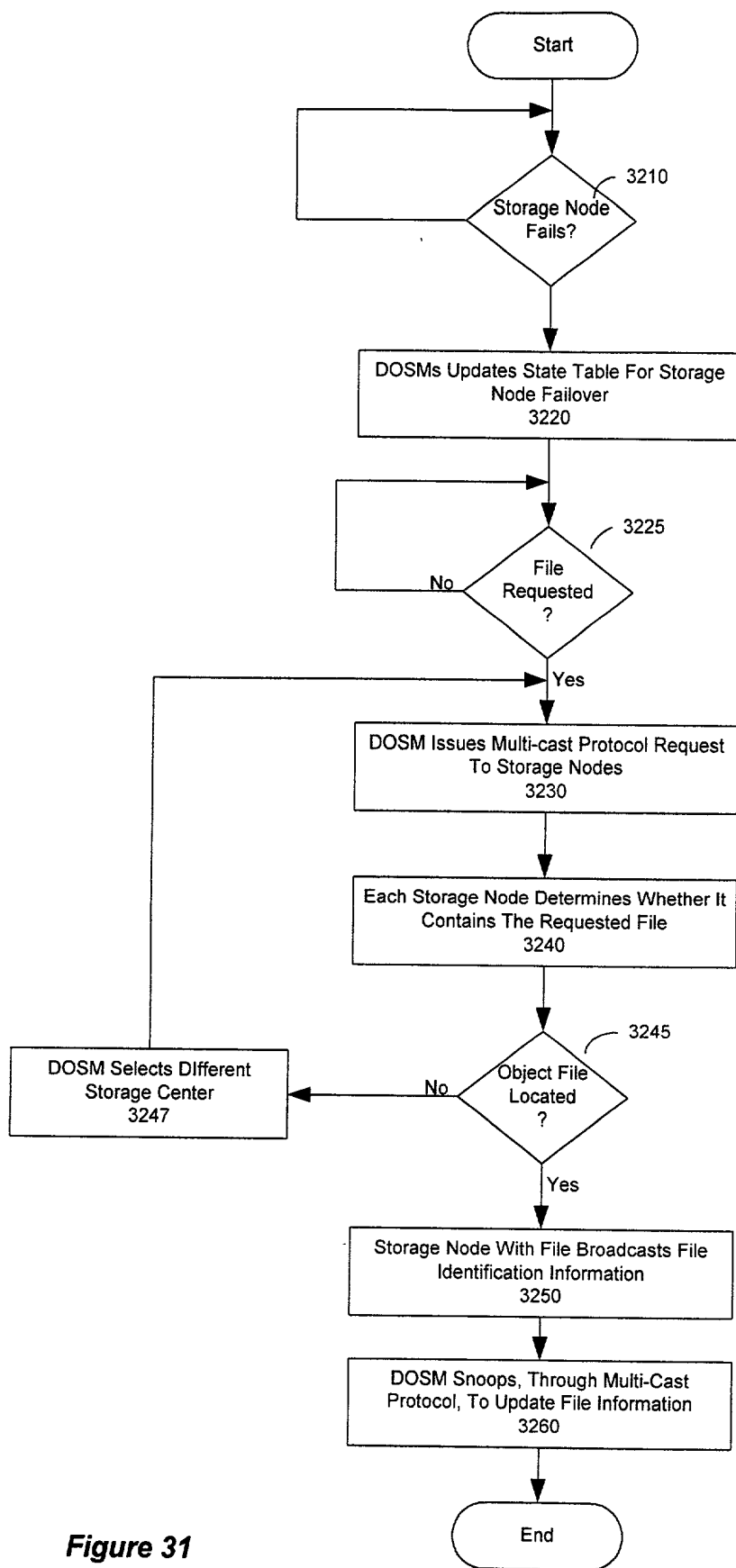


Figure 31